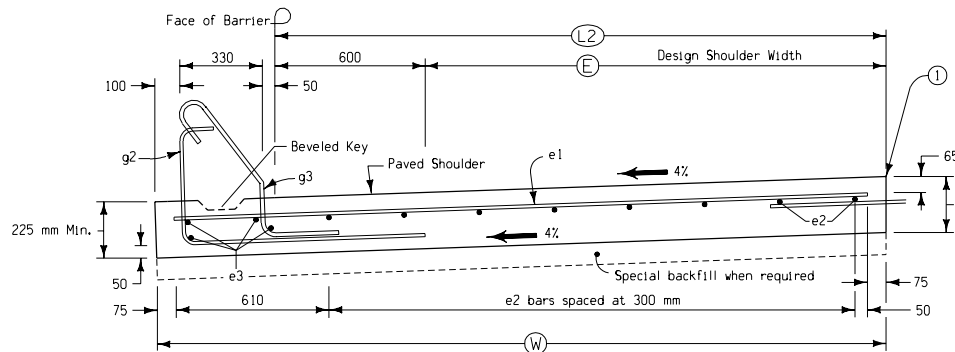
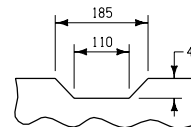


PLAN VIEW
At 6 m Interval 'CD' Joint

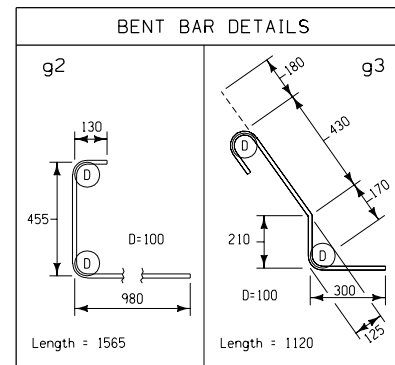


TYPICAL SECTION



Note:
Use 50 mm x 200 mm lumber 200 mm long to make keys.
Keys are to be placed at 800 mm centers.

"BEVELED KEY" CONSTRUCTION JOINT DETAILS



REINFORCING BAR LIST

Per Shoulder Panel (Approximately 6 Meters)

Dimensions (m)	Mark	Size	Number	Length	Spacing
(E) (L2) (W)					
0.6 1.2 1.68	e1	20	18	1530	300
	e2	15	4	5400	300
1.2 1.8 2.28	e1	20	18	2130	300
	e2	15	6	5400	300
1.8 2.4 2.88	e1	20	18	2730	300
	e2	15	8	5400	300
2.4 3.0 3.48	e1	20	18	3330	300
	e2	15	10	5400	300
3.0 3.6 4.08	e1	20	18	3930	300
	e2	15	12	5400	300
Applies to all Shoulder Widths	e3	15	4	5800	See Drawing
	g2	15	15	1565	400
	g3	15	15	1120	400

ESTIMATED QUANTITIES FOR SHOULDER

Per Meter

	Width (W) (meters)				
	1.68	2.28	2.88	3.48	4.08
Concrete m ²	1.68	2.28	2.88	3.48	4.08

GENERAL NOTES:

Details indicated hereon illustrate the general requirements for construction of a Reinforced Paved Shoulder to which a concrete barrier is connected. The paved shoulder shall consist of PCC Base in which Class 'C' Concrete is used. All joints shall be sealed as specified for "Portland Cement Concrete Pavement" in the current Standard Specifications.

Materials and methods of construction shall be in accordance with current Standard and Supplemental Specifications.

Slopes, dimensions and quantities indicated hereon are for a normal section as shown and are for design purposes. Shoulder construction details may be modified through superelevated curves or other areas specifically designated by the Engineer. Refer to typical cross sections and Standard Road Plans for superelevation.

Any special shaping of subgrade necessary, prior to construction of paved shoulders, shall be accomplished as directed by the Engineer. Any material removed due to this special shaping shall be disposed of at the direction of the Engineer.

"Special Backfill Material" shall be placed at a minimum depth of 150 millimeters where fill is needed and paid for as specified in Article 2102.14, Paragraph D.

If rumble strips are required by plan, see Standard Road Plan RH-41D for details of roughness pattern.

The price bid for "Reinforced Paved Shoulder," per square meter, shall be full compensation for construction of the paved shoulder as detailed hereon. This shall include:

- Furnishing and placement of P.C. Concrete Pavement
- Required pavement joints
- Epoxy coated reinforcing steel bars g2, g3, e1, e2 and e3

- 'L-2' or 'KT-2' Joint. When roadway pavement is existing, use 'BT-3' Joint. Refer to Standard Road Plan RH-51.
- Match existing joint. Place 'CD' joint in shoulder. Refer to Standard Road Plan RH-50.
- g2 and g3 bars to be spaced at 400 millimeters.
- No 'CD' joint baskets required within approximately 1.2 meters of edge of shoulder.
- 450 millimeters clear from joint line.

(E) Design Shoulder Width.

(L2) Distance from edge of traveled way to face of barrier.

(W) = (E) + 1080 mm.

All dimensions given in millimeters unless noted.

METRIC VERSION

Iowa Department of Transportation
Project Development Division

STANDARD ROAD PLAN RE-44F(2)

REVISION: Convert from New Jersey shape to F-shape barrier;
Revise notes and quantity box.

APPROVED BY: *[Signature]* 05-24-99
DESIGN METHODS ENGINEER

REINFORCED PAVED SHOULDER
FOR CONCRETE BARRIER
(PAGE 2 OF 2)

REVISION NO.
5

REVISION DATE
09-21-99